

Title: Surveys Technician I	Effective Date: February 3, 2014	Grade: X	Job Category: Technician
Prior Title: Surveys Technician I	Prior Effective Date: October 18, 2010	Grade: X	Page: 1 of 1

CHARACTERISTICS OF WORK

Under general supervision, this position is responsible for assisting a survey crew in conducting all phases of surveys for highway locations, bridge, land, and control surveys. This position will work with and assist in the training of other members on the survey crew. Work will require contact with the public.

EXAMPLES OF WORK

The following examples are intended only as illustrations of various types of work performed. No attempt is made to be exhaustive. Related, similar, or other logical duties are performed as assigned. The Department may require employees to perform functions beyond those contained in job descriptions. The Department may modify job descriptions based on Department needs. The Arkansas State Highway and Transportation Department is an "at will" employer.

- Proficiently use survey instruments, calculators, automated electronic data collectors, GPS equipment, and computers.
- Keep track of expenses and prepare individual expense reports.
- Use laptop computer for data processing, coordinate geometry computations, and computer-aided design and drafting (CADD).
- Plot survey data on plan sheets.
- Assist Surveys Crew Chief in training and supervision of survey crew members.
- Train in reading and plotting land descriptions and the use of computers.
- Perform field reconnaissance for Public Land Survey System (PLSS) monuments.

MINIMUM REQUIREMENTS

The educational equivalent to a bachelor's degree from an accredited college or university in surveying or related field, OR Survey Intern (SI) with six or more years experience in highway route surveying and/or land surveying.

Ability to perform advanced mathematical calculations as related to control, engineering design, and land surveying to include trigonometry and geometry. Ability to adapt to evolving technologies as related to surveying to include handheld field computers, desktop computer applications, and electronic surveying instruments. Proficient use of technology as related to surveying. Extensive knowledge of the functions of a survey crew, surveying instruments, surveying terminology, and surveying principles and practices. Proficiency in reading and understanding highway plans and topographic maps. Working knowledge of the Public Land Survey System (PLSS). Ability to read, interpret, and plot PLSS aliquot parts and metes and bounds land descriptions. Working knowledge of survey measurement computations and analysis to include a working knowledge of coordinate geometry (COGO) and highway alignments and curves. Working knowledge of the Department's survey data collection and processing software.

Physical ability to work with hand tools. Ability to traverse at least two miles over rugged terrain, through water, and work in an outdoor environment. Ability to stand and operate surveying equipment for at least two hours without a break. Ability to carry 50 pounds of equipment and supplies for at least two hours without a break. Valid driver's license. Constant statewide travel. Constant statewide travel for this position means overnight travel three or four nights per week, 52 weeks per year with reimbursement for expenses.

("Accredited" means the educational institution or program is accredited by an accrediting organization recognized either by the United States Department of Education or by the Council for Higher Education Accreditation.)

